



Product Sheet

Phytophthora mississippiae (ATCC® MYA-4946™)

Please read this **FIRST**



Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section



Biosafety Level
1

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Phytophthora mississippiae* (ATCC® MYA-4946™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Strain Designation: 57J3

Deposited Name: *Phytophthora mississippiae* Yang et al.

Product Description: An ampoule containing viable cells (yeast cells, spores, or agar cubes with mycelia) suspended in cryoprotectant.

Propagation

The information recommended in this section is to assist users in obtaining living culture(s) for their studies. The recommendation does not imply that the conditions or procedures provided below are optimum. Experienced researchers may initiate the growth of a culture in their own way.

ATCC® Medium 1970: V8 rye agar
ATCC® Medium 343: V8 juice agar
ATCC® Medium 321: Lima bean agar

Growth Conditions

Temperature: 20°C to 25°C
Atmosphere: Typical aerobic

Recommended Procedure

Frozen ampoules packed in dry ice should either be thawed immediately or stored in liquid nitrogen. If liquid nitrogen storage facilities are not available, frozen ampoules may be stored at or below -70°C for approximately one week. **Do not under any circumstance store frozen ampoules at refrigerator freezer temperatures (generally -20°C).** Storage of frozen material at this temperature will result in the death of the culture.

1. To thaw a frozen ampoule, place in a **25°C to 30°C** water bath, until just thawed (**approximately 5 minutes**). Immerse the ampoule just sufficient to cover the frozen material. Do not agitate the ampoule.
2. Immediately after thawing, wipe down ampoule with 70% ethanol and aseptically transfer 50 µL (or any amount desired up to all) of the content onto a plate or broth with medium recommended.
3. Incubate the inoculum/strain at the temperature and conditions recommended.
4. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 3-4 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: After 5 days on V-8 Rye agar at 20°C colonies cream colored, mainly appressed with some aerial mycelium around the plug. Catenulate, globose hyphal swellings observed. Mycelia flat, coiled, or often swollen. Hyphal swellings with irregular shapes. Sporangia not observed.

Notes

Potential Plant Pathogen; holotype of the species.

Additional, updated information on this product may be available on the ATCC® web site at www.atcc.org.

DNA Sequence

18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence
TCCGTAGGTGAACCTGCGGAAGGATCATTACCACACCTAAAAAACTTTCCACGTGAACCGTATCAAC
CCCTAAATTTGGGGGCTTGCTCGGCGCGTGCCTGGCCTGTAATGGGTGCGCGTGCCTGCTGCTGG
GCGGGCTCTATCATGGGCGAGCGTTTGGGCTTCGGCTCGAGCTAGTAGCTATCAATTTAAACCCCTTCT
TAAATACTGAACATACTGTGGGACGAAAGTCTCTGCTTTTAACTAGATAGCAACTTTCAGCAGTGGAT
GTCTAGGCTCGCACATCGATGAAGAACGCTGCGAACTCGGATACGTAATGCGAATTGCAGGATTCAGT
GAGTCATCGAAATTTGAACGCATATTGCACTTCCGGTTAGTCCTGGGAGTATGCCTGTATCAGTGTC
CGTACATCAACCTTGGTTTTCTTCCCTCCGTGAGTCCGGTGGAGGATATGCCAGACGTGAAGTGTCTTGC
TGGCGGTCTTTCGAGTCTGCCGGTGAAGTCCCTTGAATGTAAGTGAAGTGTACTCTCTCTTTGCTGAAAA
GCGTGGCGTTCGCTGTTGGAGGCTGCCGCTGGCCAGTCCGGCACCCTGTTGTTAGCTGTGGCGTT
TAATGGAGGAGTGTTCGATTCCGGTATGGTTGGCTTCGGCTGAACAATCTGCTTATTGTGTGCTTTTCC
TGTCATTGGCGGTACGAACTGGTGAACCGTAGCTGTGTGGTGCCTTGGCTTTTGAACCGGCTTTGCTTTGC
GAAGTAGTGTGGCGGCTTCGGCTGTGAGGGGTCGATCCATTTGGGAACTTTGTGTGCGCGCTTCG
TGCTGCGCGCATCTCAATTTGACCTGATATCAGGCAAGATTACCCGCTGAACCTAAG

D1D2 region of the 28S ribosomal RNA gene



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CATATCAATAAGCGGAGAAAAGAACTAACAAGGATTCCCCTAGTAACGGCGAGTGAAGCGGGAA
GAGCTCAAGCTTAAATCTCCGTGCAAGTTTTGCGCGGCGAATTGTAGTCTATAGAGGCGTGGTCAGC
GTGGGCGCTTGGGGCAAGTTCCTTGGGAAGAGGACAGCATGGAGGGTGATACTCCCCTCATCCCTGAG
TGGCTCGTGCCTACGACCCGTGTTCTTTGAGTCGCGTTGTTGGGAATGCAGCGCAAAGTAGGTGGTAA
ATTCCATCTAAAGCTAAATATTGGTGCAGACCGATAGCGAACAAGTACCGTGAGGAAAAGATGAAA
AGAACTTTGAAAAGAGAGTTAAAGAGTACCTGAAACTGCTGAAAGGGAACCGAATCGTTTTCCAGTGT
CTATAATCCGTGGCATATTTTCATTGGCGAGTGTGTGCGTGCCTGTGGCAGCGGCTTTTTGGCTG
CGCTCGGTGCGTGTGTGTGTGCTTGTGCTGGTCCCTGTGCTGCGGTGGGACGTC AAGGTCAGTTCGT
ATGCTGCGGAAATGGCTGCCGAGGAGGTAGGGCTTACGCTCTGCGTTTGTCTATTATATCTTGGTGG
CGAGTCGTGCGGTTGGGACTGAGGTGCCTACAACGTGCTTTTGTAGTGGGTGTGTGCTCCGTGTGCGC
CGTGTGCGGATAGCTTGTATGCGTGTGTGTTGTGTGGATTGATGCGTGCCTTAACTTGTGCGCCGT
CGGGACGTTGACGAAATGGAGCGATCCGAC

Isolation

Irrigation water, Mississippi, USA

References

References and other information relating to this product are available online at www.atcc.org.

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.
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